## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Original) An integrated circuit device including clock routing, comprising:
  - a first node;
  - a plurality of wires branching from the first node;
  - a second node which first appears on a first wire of the plurality of wires; and
- a wire connecting only to a third node which exists in a direction within angles of 90 degrees from an input direction of a signal inputted to the second node.
- (Original) An integrated circuit device including clock routing, comprising:
  - a first node;
  - a plurality of wires branching from the first node;
  - a second node which first appears on a first wire of the plurality of wires; and
- a wire connecting only to a third node which exists in a direction within angles of 45 degrees from an input direction of a signal inputted to the second node.
- 3. (Original) An integrated circuit device including clock routing for setting of a target delay, comprising:
  - a node;
  - a next-stage node to which a signal is to be sent after the node; and
- a combination of any of wires in directions at angles of less than 90 degrees from a straight direction connecting the node with the next-stage node.
- 4. (Original) An integrated circuit device including clock routing for setting of a target delay, comprising:
  - a node;
  - a next-stage node to which a signal is to be sent after the node; and
- at least one wire in a wiring direction present in a quadrant of a straight direction connecting the node with the next-stage node.

- 5. (Withdrawn) A clock layout system, comprising:
- a clock routing processing unit placing a route driver on a semiconductor chip and performing clock routing with an H-tree structure in a local area and with a star structure in a global area based on circuit information on a logic circuit;
- a second node specifying unit specifying, as a second node, a node that first appears on a first wire among a plurality of wires branching from an arbitrary first node in the logic circuit;
- a third node specifying unit specifying, as a third node, at least one node that is the second to appear on a wire other than the first wire among the plurality of wires branching from the first node:
- a third node defining unit defining, as the defined third node, only the third node that exists in a direction within a predetermined angle from an input direction of a signal inputted to the second node, among the third nodes; and
- a folding executing unit folding a wire from the first node up to the defined third node and a node present therebetween.
- 6. (Withdrawn) The clock layout system according to claim 5, wherein the predetermined angle used by the third node defining unit is 90 degrees.
- 7. (Withdrawn) The clock layout system according to claim 5, wherein the predetermined angle used by the third node defining unit is 45 degrees.
- 8. (Withdrawn) A clock layout system, comprising:
- a wiring direction determining unit determining at least one wiring direction used for connecting an arbitrary node in a logic circuit with a next-stage node to which a signal is to be sent after the node; and
- a wire ratio calculating unit calculating a wire ratio of the wiring direction so that a capacitance moment or delay time becomes equal to another one.
- 9. (Withdrawn) The clock layout system according to claim 8, wherein the wiring direction determining unit determines, as the wiring direction, a combination of any of wiring directions at

angles

of less than 90 degrees from a straight direction connecting the node with the next-stage node.

- 10. (Withdrawn) The clock layout system according to claim 8, wherein the wiring direction determining unit determines, as the wiring direction, a combination of any of wiring directions present in a quadrant of a straight direction connecting the node with the next-stage node.
- 11. (Withdrawn) A clock layout method, comprising: accepting circuit information on a logic circuit;

based on the circuit information, placing a route driver on a semiconductor chip and forming initial clock routing with an H-tree structure in a local area and with a star structure in a global area;

specifying, as a second node, a node which first appears on a first wire among a plurality of wires branching from an arbitrary first node in the initial clock routing;

specifying, as a third node, at least one node which is the second to appear on a wire other than the first wire among the plurality of wires branching from the first node;

defining, as the defined third node, only the third node which exists in a direction within a predetermined angle from an input direction of a signal inputted to the second node, among the third nodes; and

folding a wire from the first node up to the defined third node and a node present therebetween.

- 12. (Withdrawn) The clock layout method according to claim 11, wherein the predetermined angle is 90 degrees.
- 13. (Withdrawn) The clock layout method according to claim 11, wherein the predetermined angle is 45 degrees.
- (Withdrawn) A clock layout method, comprising:
  accepting circuit information on a logic circuit;

determining at least one wiring direction used for connecting an arbitrary node in the logic circuit with a next-stage node to which a signal is to be sent after the node; and calculating a wire ratio of the wiring direction so that a capacitance moment or delay time becomes equal to another one.

- 15. (Withdrawn) The clock layout method according to claim 14, wherein the step of determining the wiring direction is a step of determining, as the wiring direction, a combination of any of wiring directions at angles of less than 90 degrees from a straight direction connecting the node with the next-stage node.
- 16. (Withdrawn) The clock layout method according to claim 14, wherein the step of determining the wiring direction is a step of determining, as the wiring direction, a combination of any of wiring directions present in a quadrant of a straight direction connecting the node with the next-stage node.
- 17. (Withdrawn) A clock layout program causing a computer to execute: accepting circuit information on a logic circuit;

based on the circuit information, placing a route driver on a semiconductor chip and forming initial clock routing with an H-tree structure in a local area and with a star structure in a global area;

specifying, as a second node, a node which first appears on a first wire among a plurality of wires branching from an arbitrary first node in the initial clock routing;

specifying, as a third node, at least one node which is the second to appear on a wire other than the first wire among the plurality of wires branching from the first node;

defining, as the defined third node, only the third node which exists in a direction within a predetermined angle from an input direction of a signal inputted to the second node, among the third nodes; and

folding a wire from the first node up to the defined third node and a node present therebetween.

18. (Withdrawn) A clock layout program causing a computer to execute: accepting circuit

information on a logic circuit; determining at least one wiring direction used for

connecting an arbitrary node in the logic circuit with a next-stage node to which a signal is to be sent after the node; and

calculating a wire ratio of the wiring direction so that a capacitance moment or delay time becomes equal to another one.